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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/751,083	12/29/2000	William Jarrett Campbell	2000.044400/TT3219	5023	
75	7590 03/26/2004		EXAM	INER	
George J.Oehling			FULLER, RODNEY EVAN		
Williams Morga 7676 Hillmont			ART UNIT	PAPER NUMBER	
Houston, TX	77040	:	2851		
			DATE MAILED: 03/26/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

APR 14 2004
TECHNOLOGY CENTER 2800

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)		
	09/751,083	CAMPBELL ET AL.		
Office Action Summary	Examiner	Art Unit		
	Rodney E Fuller	2851		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state than the set of the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state than three months after the maximum state of the	N. 1.136(a). In no event, however, may a reply be ti reply within the statutory minimum of thirty (30) da od will apply and will expire SIX (6) MONTHS fron tute, cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on 29	December 2000.	·		
<u> </u>	his action is non-final.			
	<u></u>			
Disposition of Claims				
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9)☐ The specification is objected to by the Examination 10)☒ The drawing(s) filed on 29 December 2000 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt 11)☐ The oath or declaration is objected to by the	s/are: a)⊠ accepted or b)⊡ object he drawing(s) be held in abeyance. Se rection is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in Applica riority documents have been receiv eau (PCT Rule 17.2(a)).	tion No ved in this National Stage		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 08) 5) Notice of Informal 6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Suzuki, et al. (US 6,329,643).

Regarding claims 7 and 13, Suzuki discloses "a multi-zone furnace (Fig. 2, ref.#s 47, 48, 49) adapted to bake a plurality of wafers for a first bake time, with each zone of the furnace accommodating at least one wafer (Fig. 2, ref.# W); a metrology tool (Fig. 4, ref.# 8) adapted to measure a film thickness of the at least one wafer baked in each zone of the furnace; and a first controller (Fig. 6, ref.# 52) adapted to determine a deposition rate for each zone of the furnace, the deposition rate being determined (column 6, lines 45-49) as a function of the film thickness of the wafer and the first bake time, to assign the deposition rate of one of said zones (column 1, lines 15-16) as a baseline for the other said zones of the furnace, and to adjust the deposition rate of the other said zones (column 1, lines 13-14) of the furnace to be substantially the same as said baseline deposition rate; and wherein the furnace is further adapted to bake the subsequent set of wafers in the furnace with said adjusted deposition rates."

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Regarding claims 8, 9, 14 and 15, Suzuki discloses "at least one second controller (Fig. 3, ref.#s. 51, 52, 53), the at least one second controller being adapted to adjust the temperature setting of each zone of the furnace; and wherein the first controller is further adapted to determine a temperature setting to set the other said zones of the furnace to achieve said baseline deposition rate, and change the temperature setting of the other said zones to the temperature setting determined (column 1, lines 42-47)."

Regarding claims 10 and 16, Suzuki discloses "wherein the metrology tool further comprises an ellipsometer." (column 6, line 21)

Regarding claims 11, 12, 17 and 18, Suzuki discloses "wherein the first controller is further adapted to determine a second bake time to bake said subsequent set of wafers in the furnace based at least upon said baseline deposition rate." (column 1, 42-47; column 6, lines 45-49)

The method steps of claims 1-6 are met by the operation of Suzuki as applied to claims 7-18.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Cook, et al. (US 2003/0049372) and Moslehi (US 5,436,172) each disclose multizone furnace with a temperature and process uniformity control system.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney E Fuller whose telephone number is 571-272-2118. The examiner can normally be reached on 8:00am 4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 571-272-2112. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Rodney E Fuller Primary Examiner

Art Unit 2851

March 15, 2004

Notice of References Cited Application/Control No. 09/751,083 Examiner Rodney E Fuller U.S. PATENT DOCUMENTS Applicant(s)/Patent Under Reexamination CAMPBELL ET AL. Art Unit Page 1 of 1

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-6,329,643	12-2001	Suzuki et al.	219/497
	В	US-5,436,172	07-1995	Moslehi, Mehrdad M.	374/121
	С	US-2003/0049372	03-2003	Cook et al.	427/248.1
	D	US-			
	Ε	US-			
	F	US-			
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	К	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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^{*}A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

